Refine Search

Search Results -

Terms	Documents
L1 and (context same (state or mode))	6

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L2

Refine Search

Recall Text ⬍   Clear

Interrupt

Search History

DATE: **Wednesday, April 05, 2006**   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB; PLUR=YES; OP=OR			
L2	L1 and (context same (state or mode))	6	L2
L1	(wireless adj1 communication$1) same ((mobile or portable) adj1 computer) same ((base or dock$3) adj1 station)	233	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 and (context same (state or mode))	6

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:
L3

[Refine Search]

[Recall Text] [Clear] [Interrupt]

Search History

DATE: Wednesday, April 05, 2006   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L3	L1 and (context same (state or mode))	6	L3
	DB=PGPB; PLUR=YES; OP=OR		
L2	L1 and (context same (state or mode))	6	L2
L1	(wireless adj1 communication$1) same ((mobile or portable) adj1 computer) same ((base or dock$3) adj1 station)	233	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 and (context same (state or mode))	0

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L4

Refine Search

Recall Text Clear Interrupt

Search History

DATE: Wednesday, April 05, 2006 Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L4	L1 and (context same (state or mode))	0	L4
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L3	L1 and (context same (state or mode))	6	L3
	DB=PGPB; PLUR=YES; OP=OR		
L2	L1 and (context same (state or mode))	6	L2
L1	(wireless adj1 communication$1) same ((mobile or portable) adj1 computer) same ((base or dock$3) adj1 station)	233	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
(361/683 |361/684 |361/685 |361/686 |710/300 |710/301 |710/302 |710/303 |710/304 |710/104 |712/228 |713/1 |713/2 |713/100 |713/323).ccls.	12309

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L5

[Refine Search]

[Recall Text]   [Clear]   [Interrupt]

Search History

DATE: Wednesday, April 05, 2006   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L5	710/300-304,104;712/228;713/1,2,100,323;361/683-686.ccls.	12309	L5
	DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L4	L1 and (context same (state or mode))	0	L4
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L3	L1 and (context same (state or mode))	6	L3
	DB=PGPB; PLUR=YES; OP=OR		
L2	L1 and (context same (state or mode))	6	L2
L1	(wireless adj1 communication$1) same ((mobile or portable) adj1 computer) same ((base or dock$3) adj1 station)	233	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 and L5	3

Database:

```
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins
```

Search:

```
L6
```

Refine Search

Recall Text ⬍ Clear Interrupt

Search History

DATE: Wednesday, April 05, 2006   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L6	11 and L5	3	L6
L5	710/300-304,104;712/228;713/1,2,100,323;361/683-686.ccls.	12309	L5
	DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L4	L1 and (context same (state or mode))	0	L4
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L3	L1 and (context same (state or mode))	6	L3
	DB=PGPB; PLUR=YES; OP=OR		
L2	L1 and (context same (state or mode))	6	L2
L1	(wireless adj1 communication$1) same ((mobile or portable) adj1 computer) same ((base or dock$3) adj1 station)	233	L1

END OF SEARCH HISTORY

EAST - [Untitled1:1]

File View Edit Tools Window Help

Drafts			Search	List	Browse	Queue	Clear	☑ Plurals

- Drafts
- Pending
- **Active**
  - L1: (186) (wireless ad_
  - L2: (6) l1 and (context
- Failed
- Saved
- Favorites
- Tagged (0)
- UDC
- Queue
- Trash

DBs USPAT

Default operator OR

☑ Plurals
☑ Highlight all hit terms initially

BRS form   IS&R form   Image   Text   HTML

	Type	L #	Hits	Search Text	DBs	Time Stam	Comment	Error Definit	Er
1	BRS	L1	186	(wireless adj1 communication$1) same	USPAT	2006/04/0 5 14:17			
2	BRS	L2	6	l1 and (context same (state or mode))	USPAT	2006/04/0 5 14:17			

EAST - [Untitled1:1]

File View Edit Tools Window Help

- Drafts
- Pending
- Active
  - L1: (186) (wireless ad
  - L2: (6) l1 and (context
- Failed
- Saved
- Favorites
- Tagged (0)
- UDC
- Queue
- Trash

| Search | | Browse | Queue | Clear |

DBs USPAT

Default operator OR

☑ Plurals
☑ Highlight all hit terms initially

```
l1 and (context same (state or mode))
```

BRS form IS&R form Image Text HTML

	U	I	Document ID	Issue Dat	Pages	Title	Current OR	Current XR
1	☐	☐	US 6952571 B1	20051004	15	Digital signal processor update of sin	455/226.2	455/343.1; 455/343.2;
2	☐	☐	US 6920637 B2	20050719	17	Method and apparatus for implementing alerts	719/318	455/412.2; 455/95;
3	☐	☐	US 6901276 B1	20050531	12	Direct digital signal processor control of mu	455/574	370/311; 455/343.2;
4	☐	☐	US 6861980 B1	20050301	16	Data messaging efficiency for an assis	342/357.06	701/213
5	☐	☐	US 6690364 B1	20040210	18	Method and system for on screen text correcti	345/173	345/179
6	☐	☐	US 5745850 A	19980428	17	Apparatus and method for mobile (e.g. cellul	455/417	455/420; 455/567

Start EAST - [...

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Search Results

BROWSE   SEARCH   IEEE XPLORE GUIDE   SUPPORT

Results for "(((mobile or portable) and computer <in>metadata) <and> (dock*<in>metadata))..."
Your search matched 2 of 1335860 documents.
A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance** in **Descending** order.

✉ e-mail 🖶 printer friendly

× Search Options

View Session History

New Search

Modify Search

(((mobile or portable) and computer <in>metadata) <and> (dock*<in>metadata))<   Search >

☐ Check to search only within this results set

Display Format: ◉ Citation   ○ Citation & Abstract

× Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

[view selected items]   **Select All Deselect All**

☐ 1. **Temporal coordination of perceptual algorithms for mobile robot navigation**
   Arkin, R.C.; MacKenzie, D.;
   Robotics and Automation, IEEE Transactions on
   Volume 10, Issue 3, June 1994 Page(s):276 - 286
   Digital Object Identifier 10.1109/70.294203

   AbstractPlus | Full Text: PDF(1356 KB)   IEEE JNL
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☐ 2. **The role of vision for underwater vehicles**
   Santos-Victor, J.; Sentieiro, J.;
   Autonomous Underwater Vehicle Technology, 1994. AUV '94. Proceedings of the 1994 Symposium on
   19-20 July 1994 Page(s):28 - 35
   Digital Object Identifier 10.1109/AUV.1994.518603

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Temporal coordination of perceptual algorithms for mobile robot navigation

Arkin, R.C. MacKenzie, D.
Mobile Robot Lab., Georgia Inst. of·Technol., Atlanta, GA, USA;

Abstract
A methodology for integrating multiple perceptual algorithms within a reactive robotic control system is presented. A model using finite state accepters is developed as a means for expressing perceptual processing over space and time in the **context** of a particular motor behavior. This model can be utilized for a wide range of perceptual sequencing problems. The feasibility of this method is demonstrated in two separate implementations. The first is in the **context of mobile** robot **docking** where the **mobile** robot uses four different vision and ultrasonic algorithms to position itself relative to a **docking** workstation over a long-range course. The second uses vision, IR beacon, and ultrasonic algorithms to park the robot next to a desired plastic pole randomly placed within an arena

Index Terms
Inspec

    Controlled Indexing
    computer vision computerised navigation mobile robots path planning

    Non-controlled Indexing
    IR beacon **docking** finite state accepters **mobile robot navigation** perceptual algorithms perceptual processing
    perceptual sequencing problems reactive robotic control system temporal coordination ultrasonic algorithms vision
    algorithms
Author Keywords
Not Available

References

No references available on IEEE Xplore.

Citing Documents

1   Decision-theoretic cooperative sensor planning, Cook, D.J.; Gmytrasiewicz, P.; Holder, L.B.
    Pattern Analysis and Machine Intelligence, IEEE Transactions on
    On page(s): 1013-1023, Volume: 18, Issue: 10, Oct 1996
    Abstract | Full Text: PDF (1252)

2   Fusing range and intensity images for mobile robot localization, Neira, J.; Tardos, J.D.; Horn, J.; Schmidt, G.
    Robotics and Automation, IEEE Transactions on
    On page(s): 76-84, Volume: 15, Issue: 1, Feb 1999
    Abstract | Full Text: PDF (320)

3   Vision for mobile robot navigation: a survey, Desouza, G.N.; Kak, A.C.
    Pattern Analysis and Machine Intelligence, IEEE Transactions on
    On page(s): 237-267, Volume: 24, Issue: 2, Feb 2002
    Abstract | Full Text: PDF (3542)

4
    A subsumptive, hierarchical, and distributed vision-based architecture for smart robotics, DeSouza, G.N.; Kak, A.C.
    Systems, Man and Cybernetics, Part B, IEEE Transactions on